

Service Manual



TVB-S201 PRO

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Chapter 1. INTRODUCTION

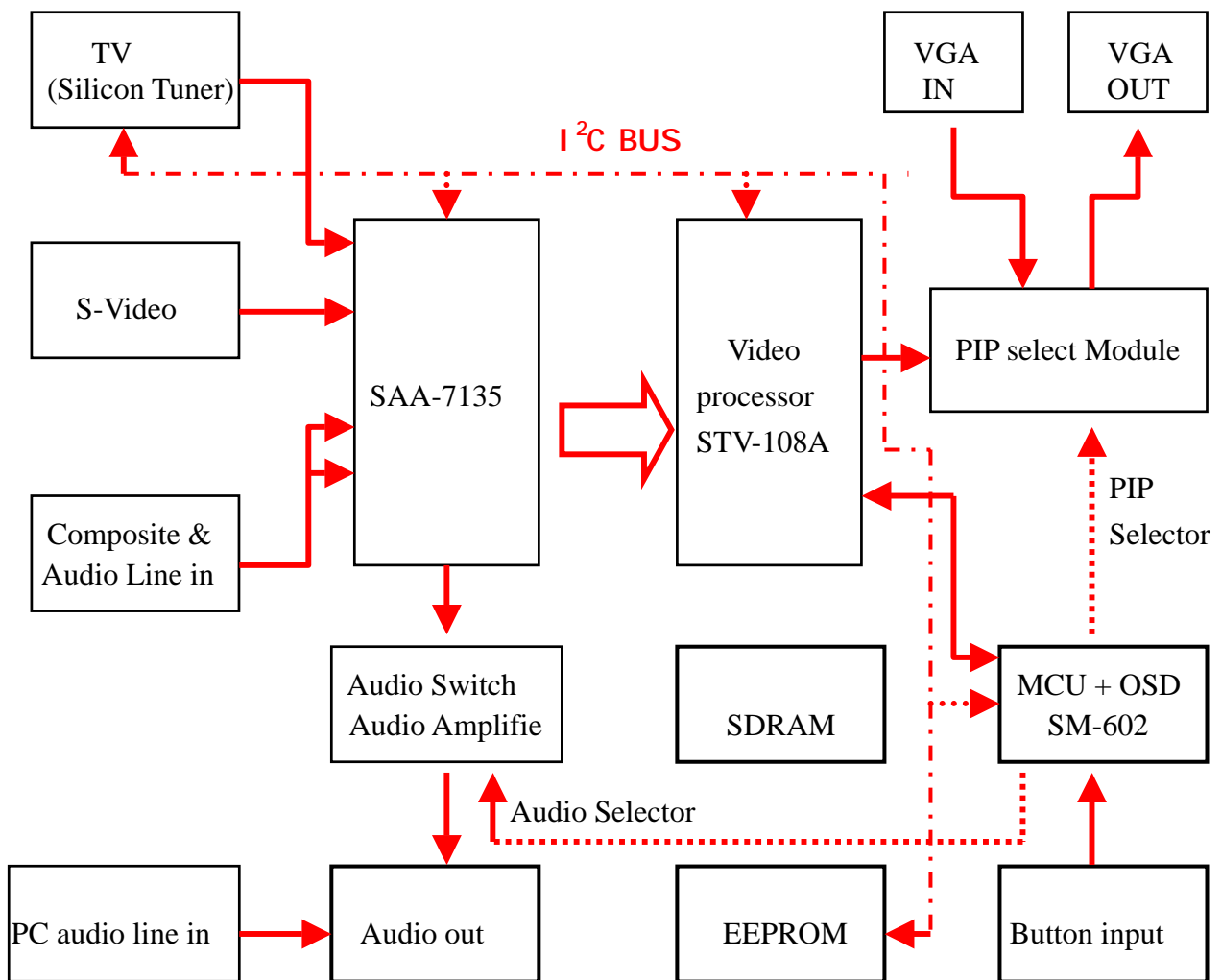
a. Hardware

- ◆ PC586 above
- ◆ Connection port : VGA

b. Software

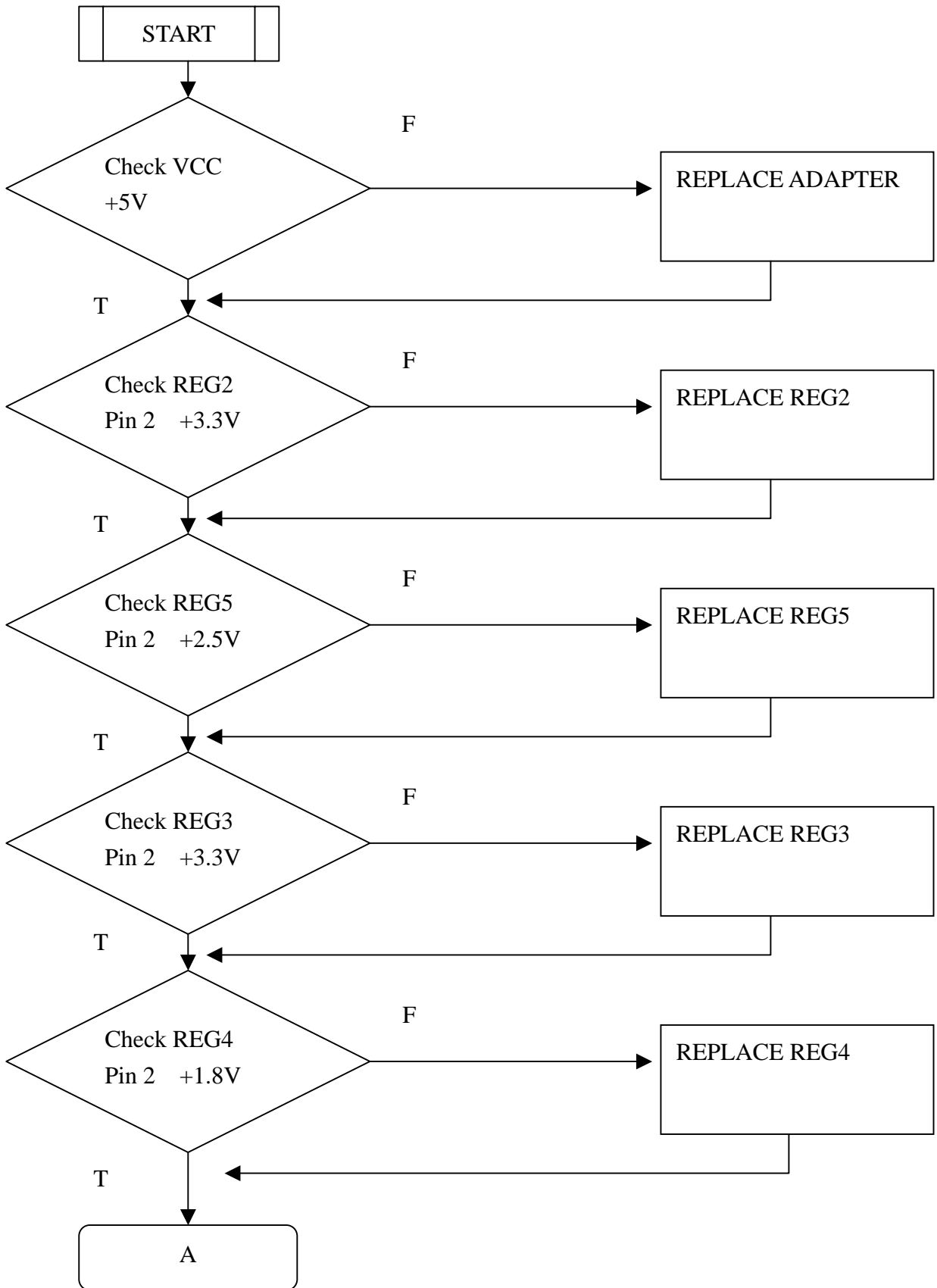
- ◆ Win98 above

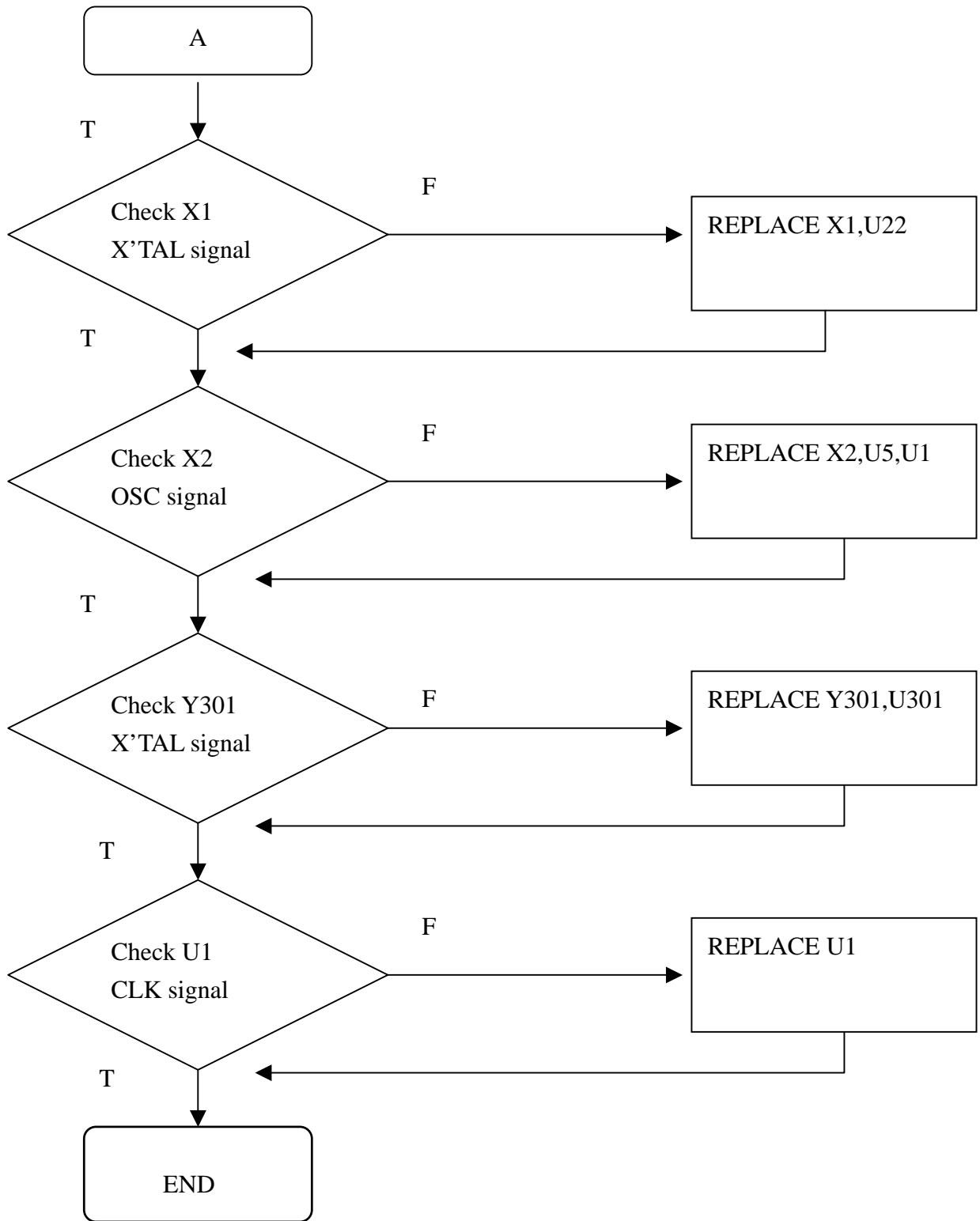
c. Block Diagram



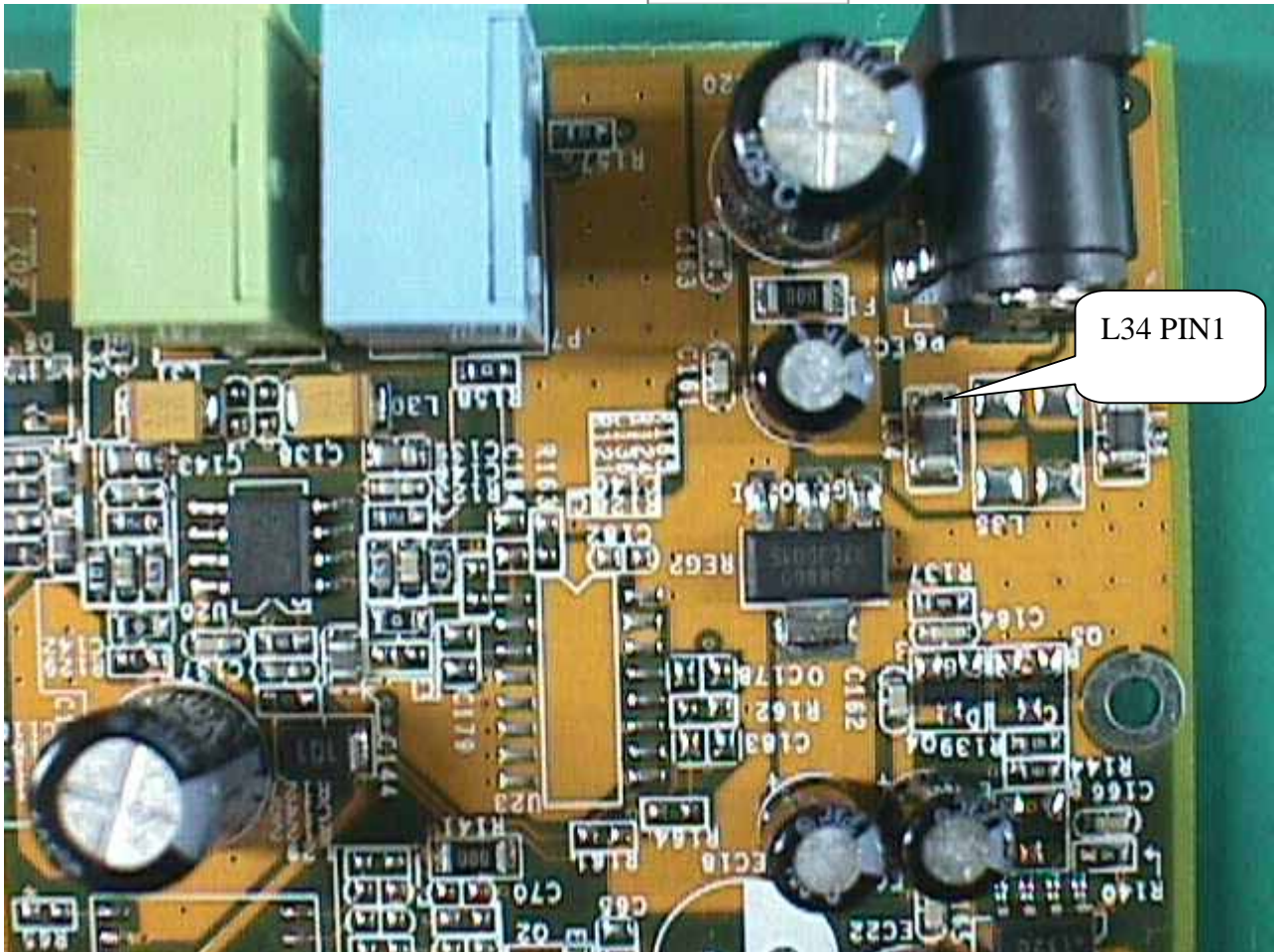
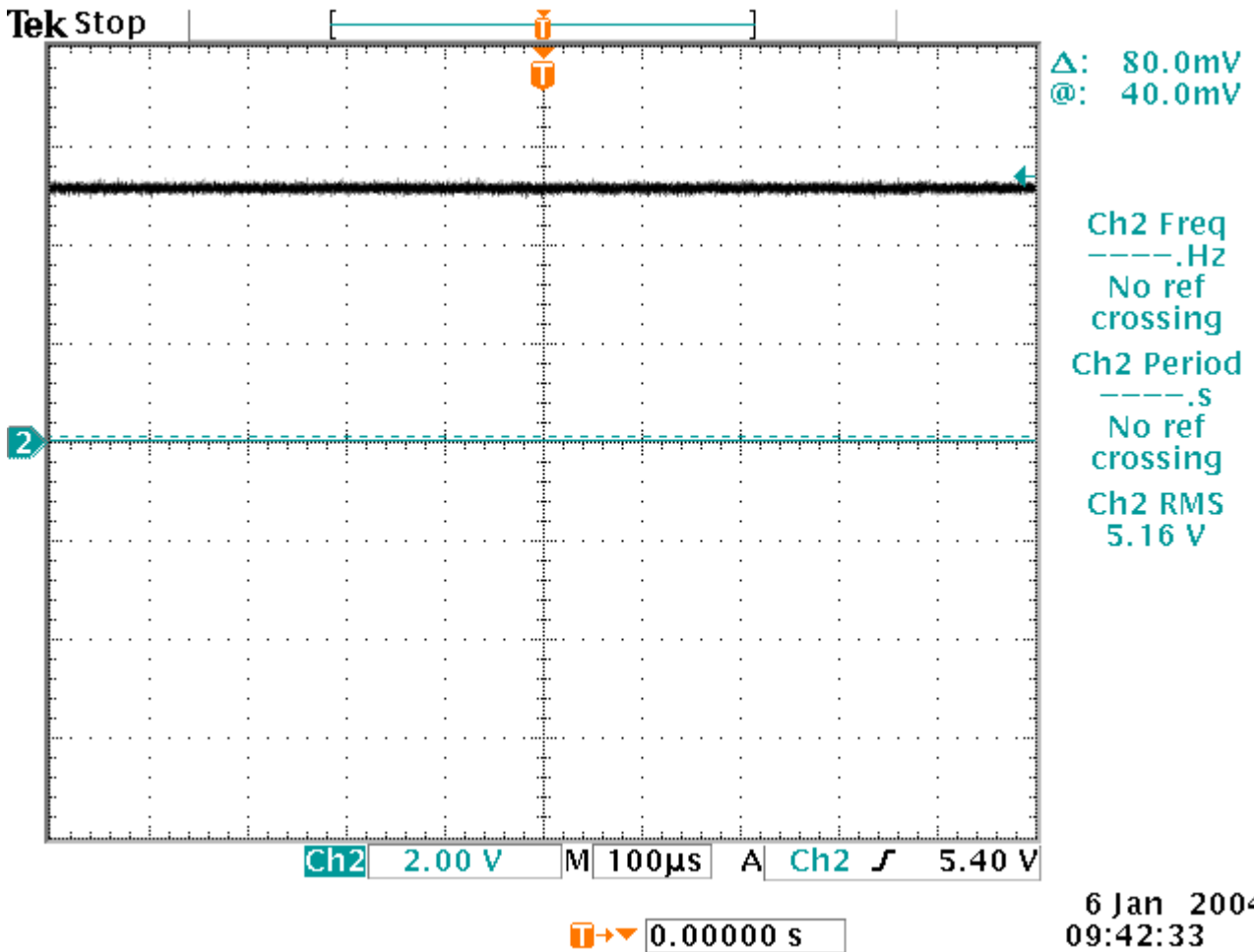
Chapter 2. Testing Procedures

a. Testing flow chart

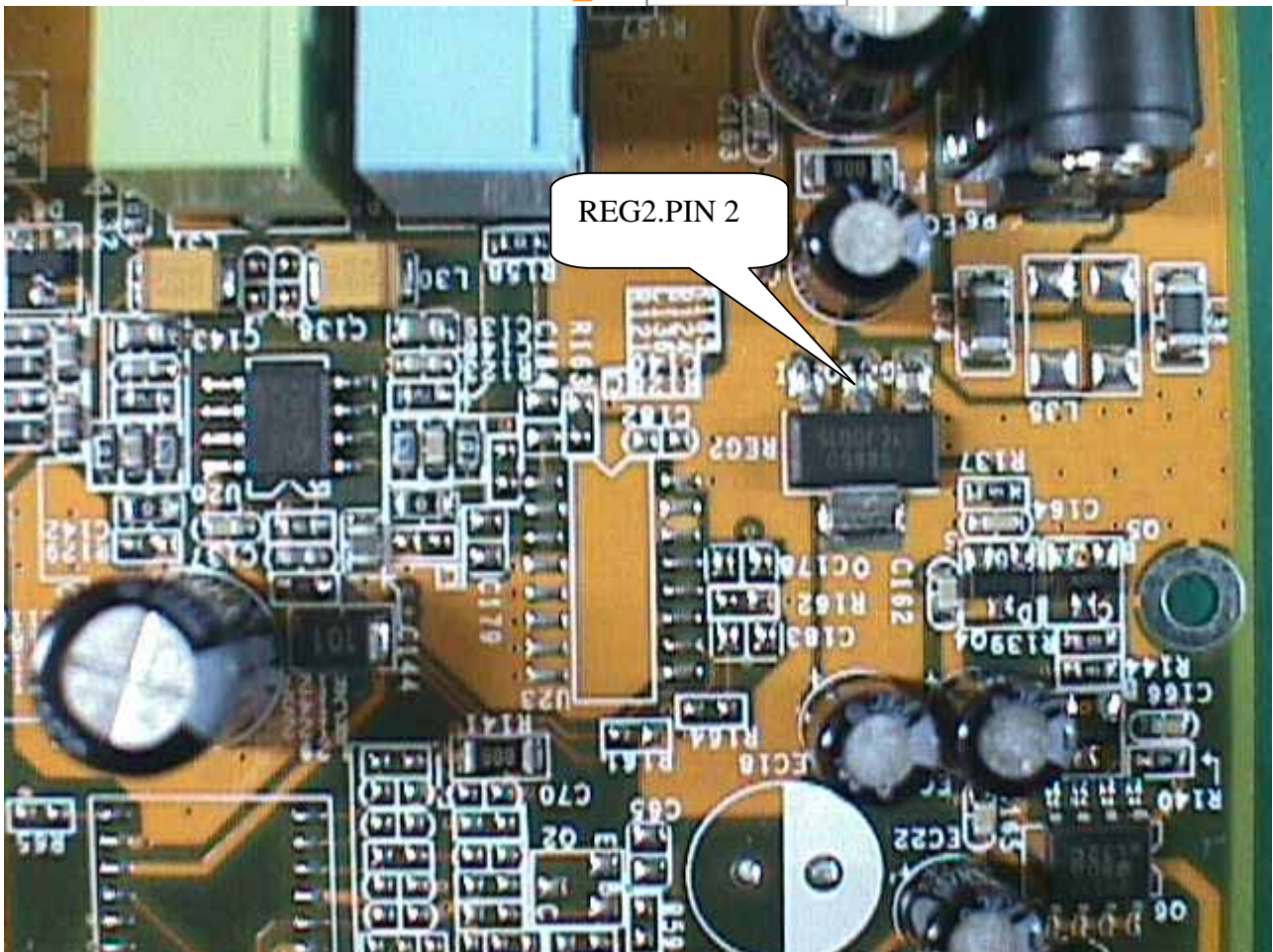
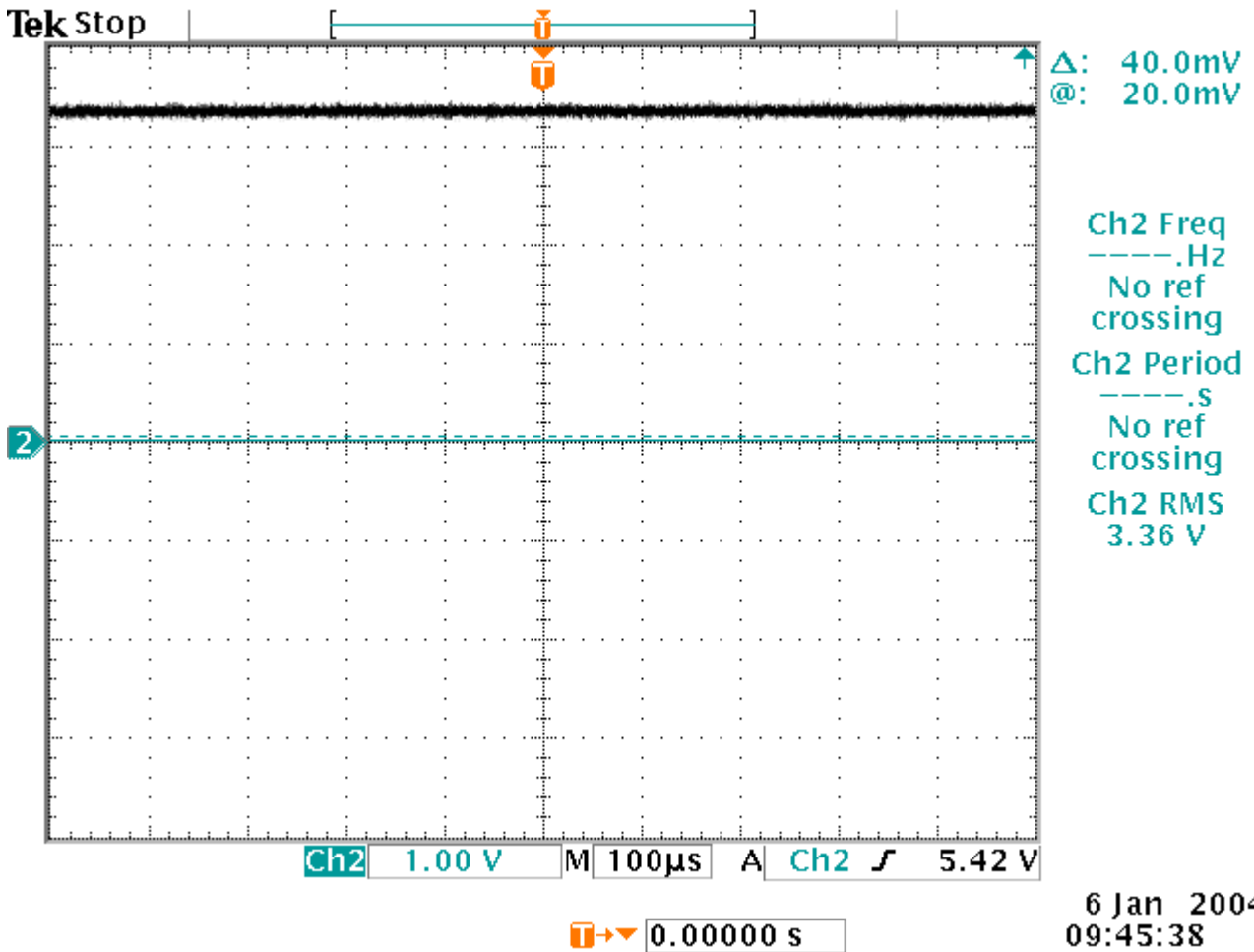




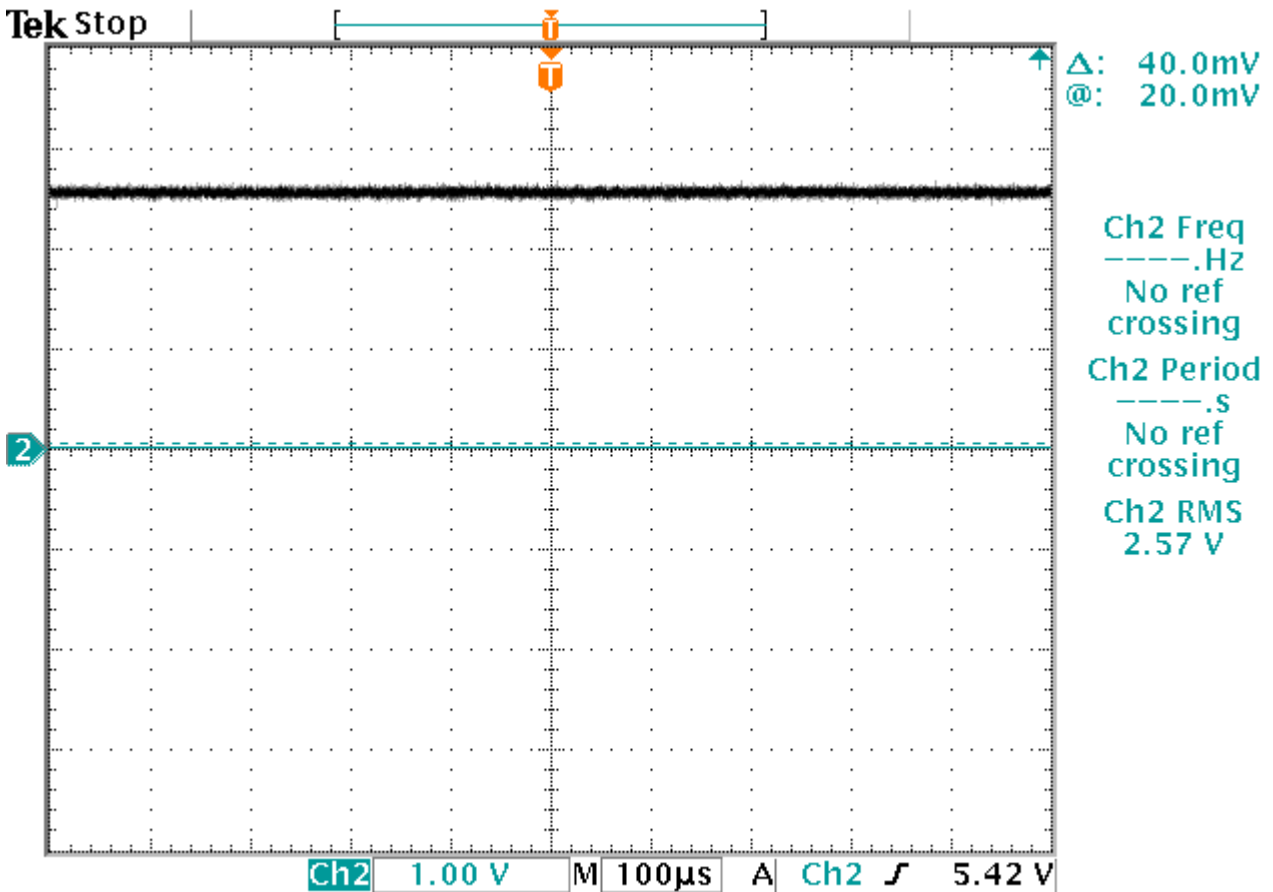
b. Check VCC +5V



c. Check REG2 Pin 2 Signal



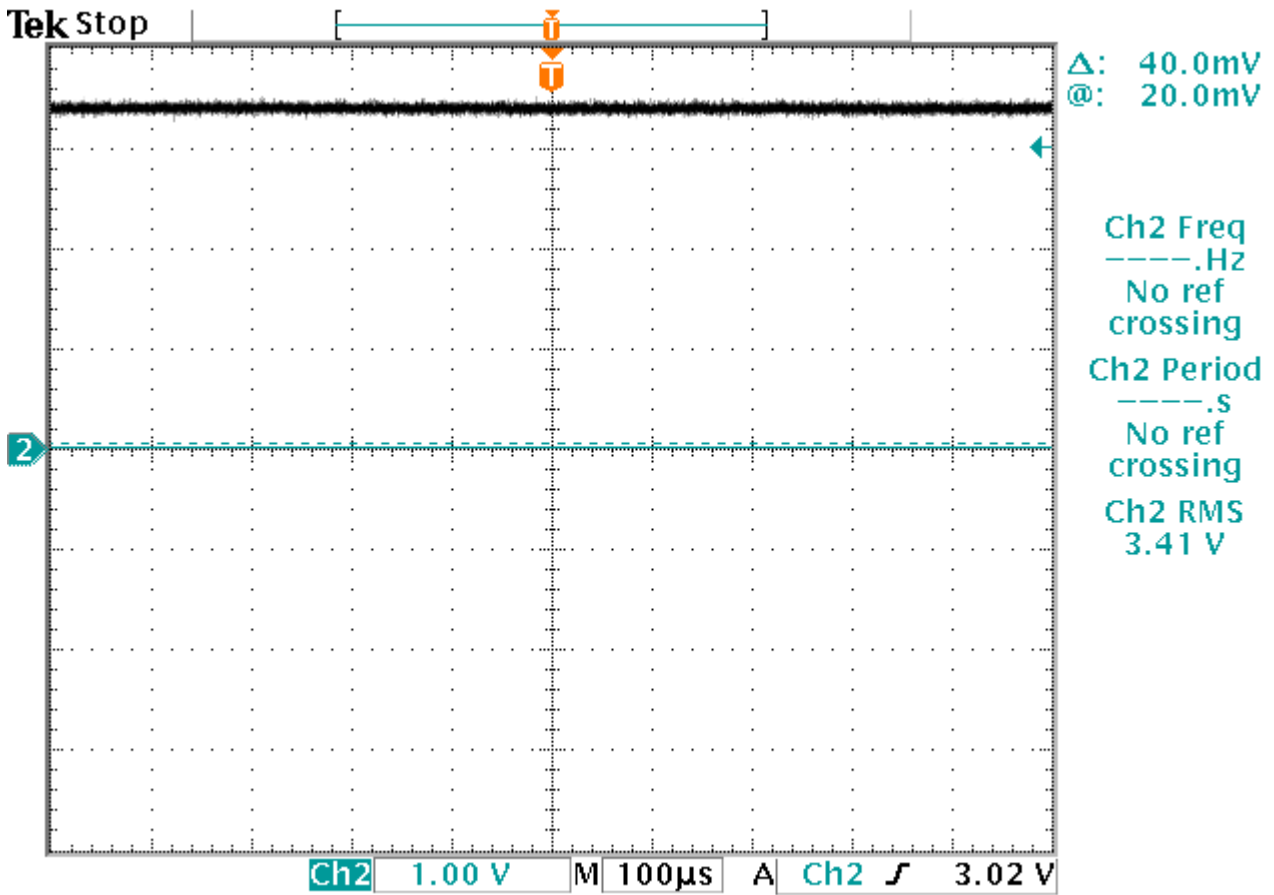
d. Check REG5 Pin 2 Signal



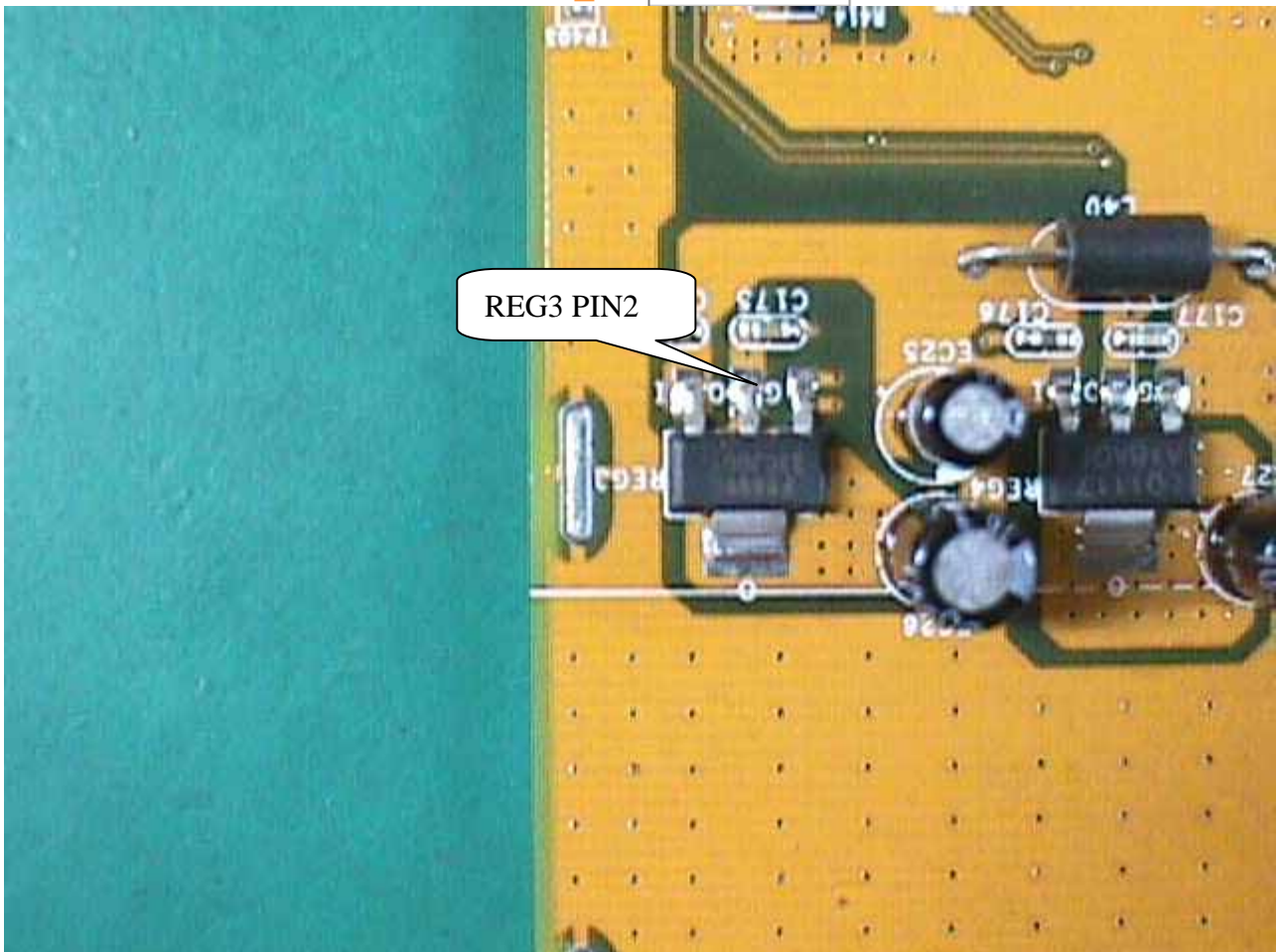
6 Jan 2004
09:50:23



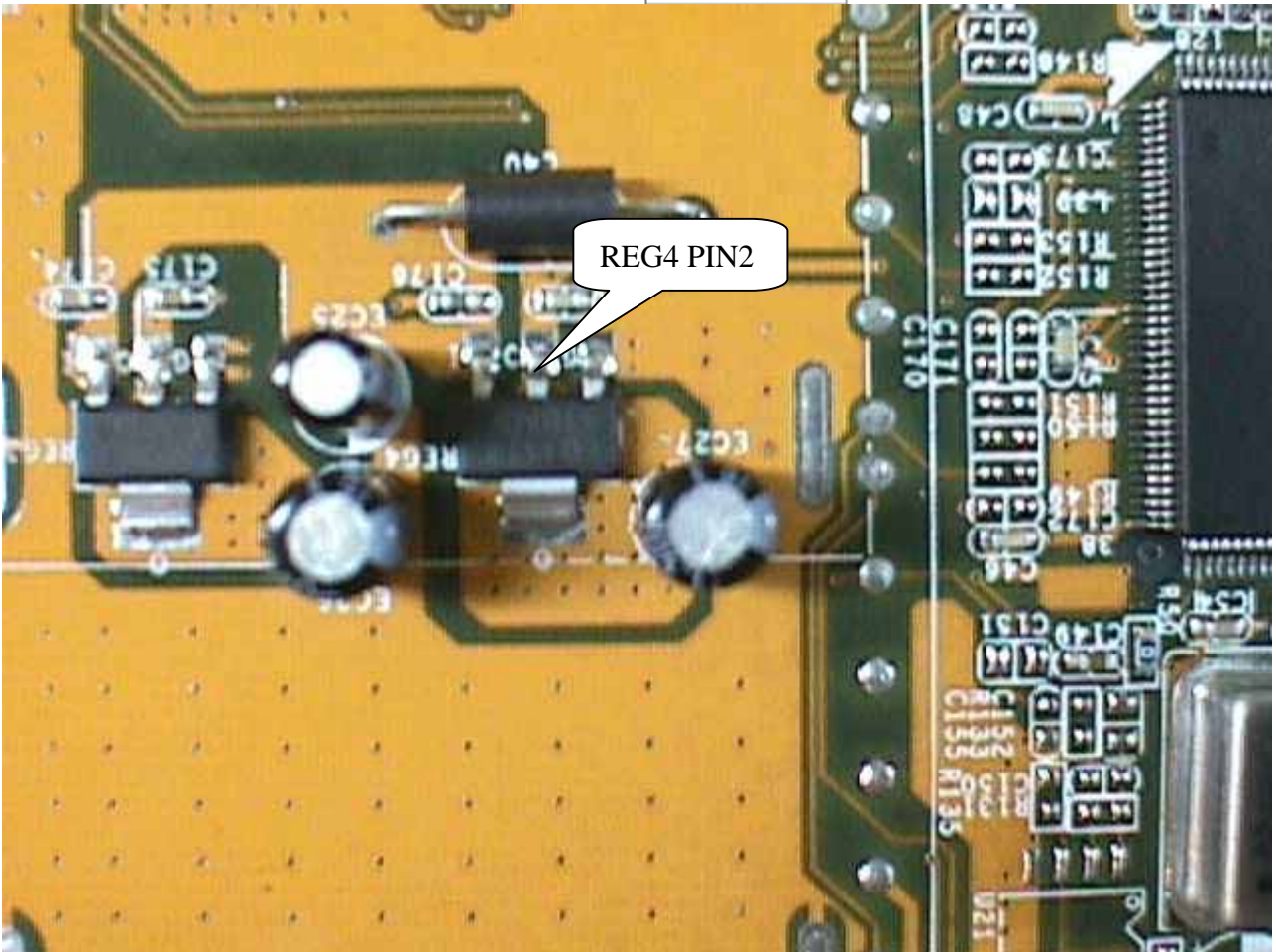
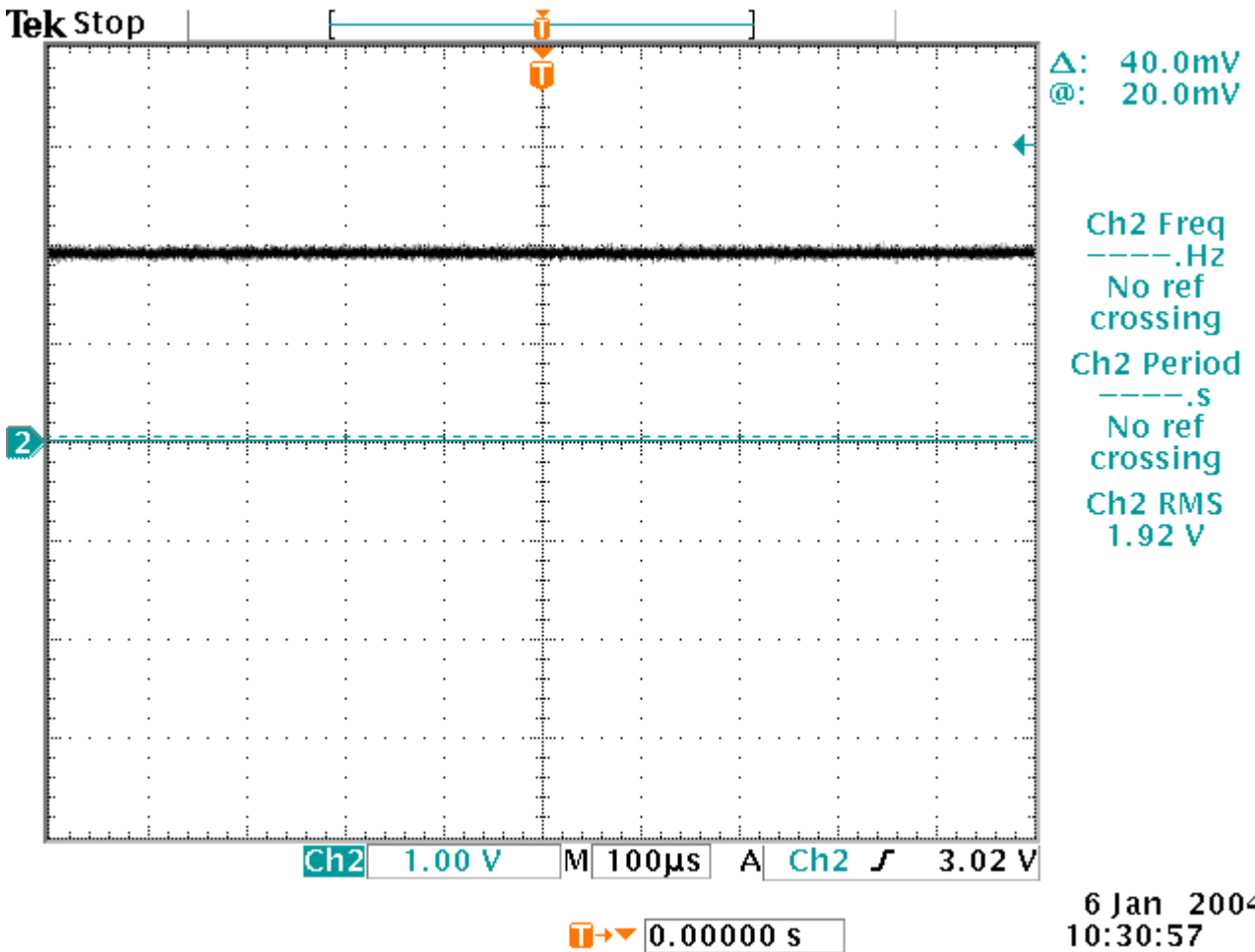
e. Check REG3 Pin 2 Signal



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10:22:34

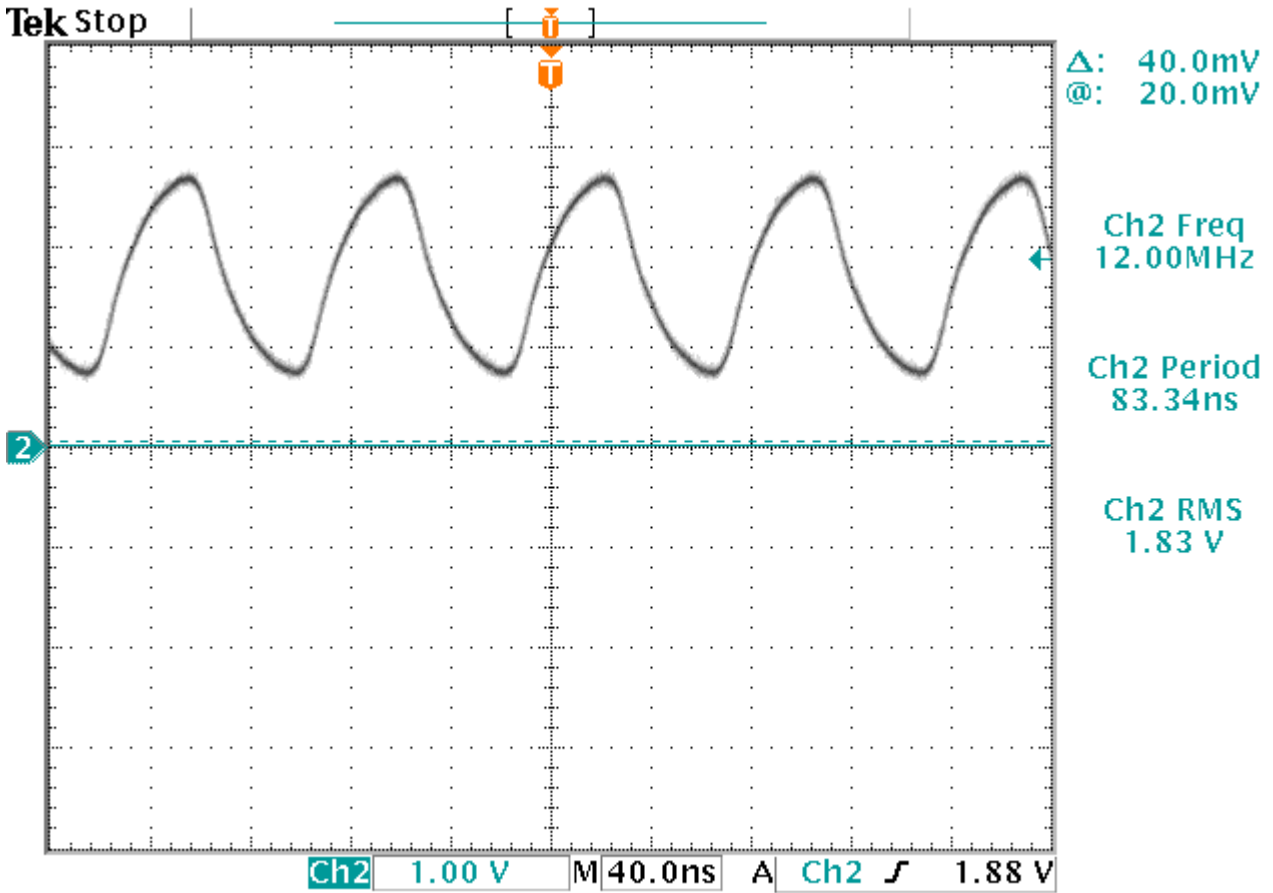


f. Check REG4 Pin 2 Signal



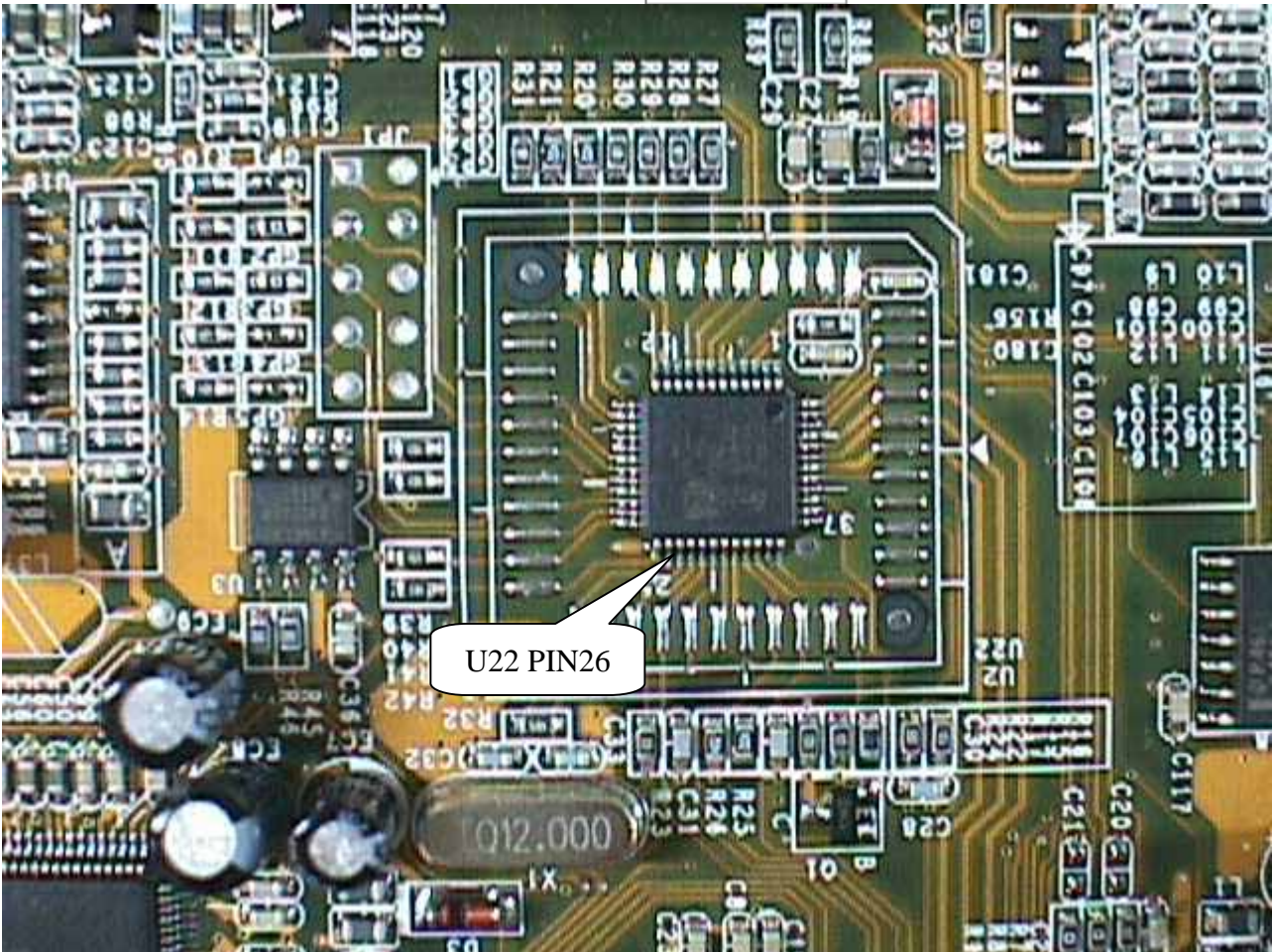
g. Check X1,U22 Pin 26 X'TAL Signal

Tek Stop

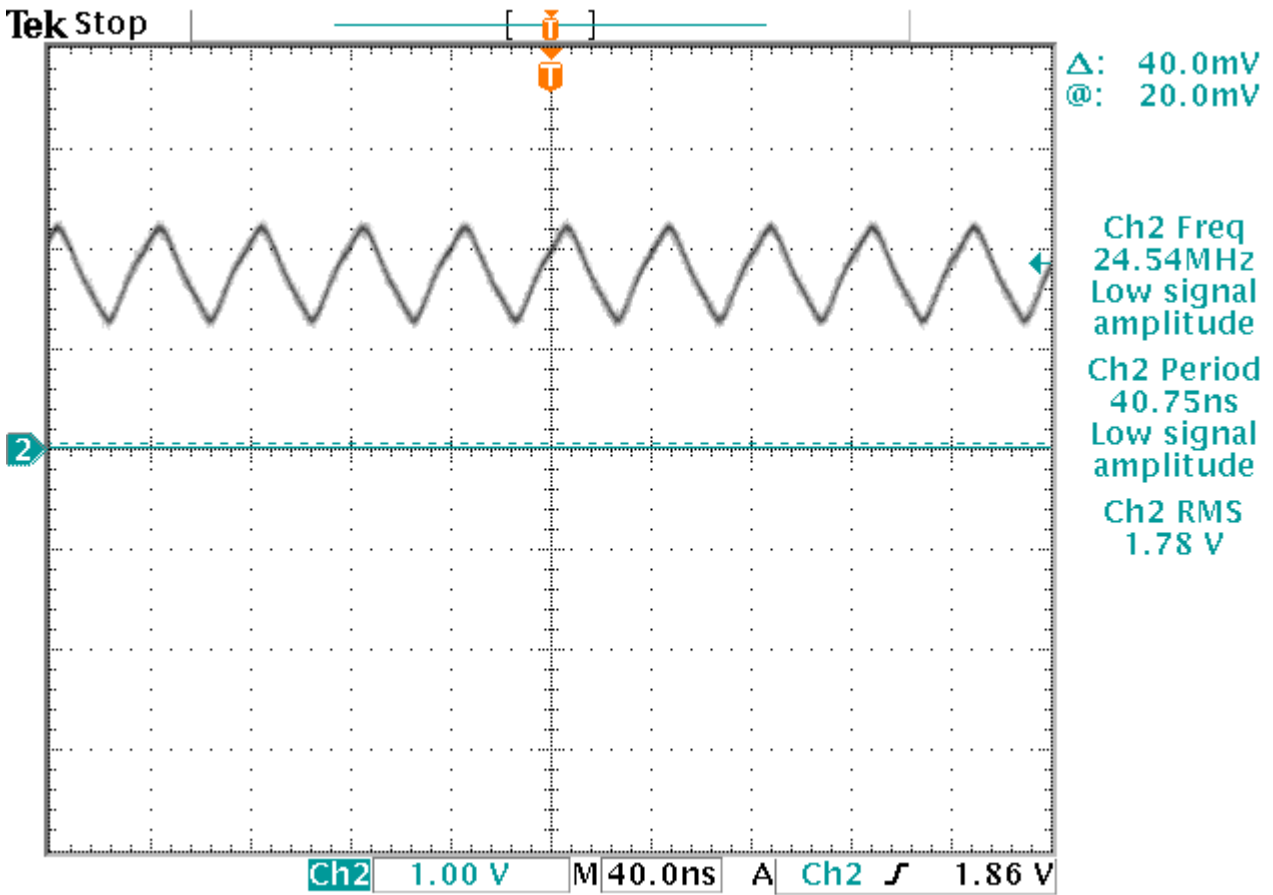


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10:37:35

0.00000 s

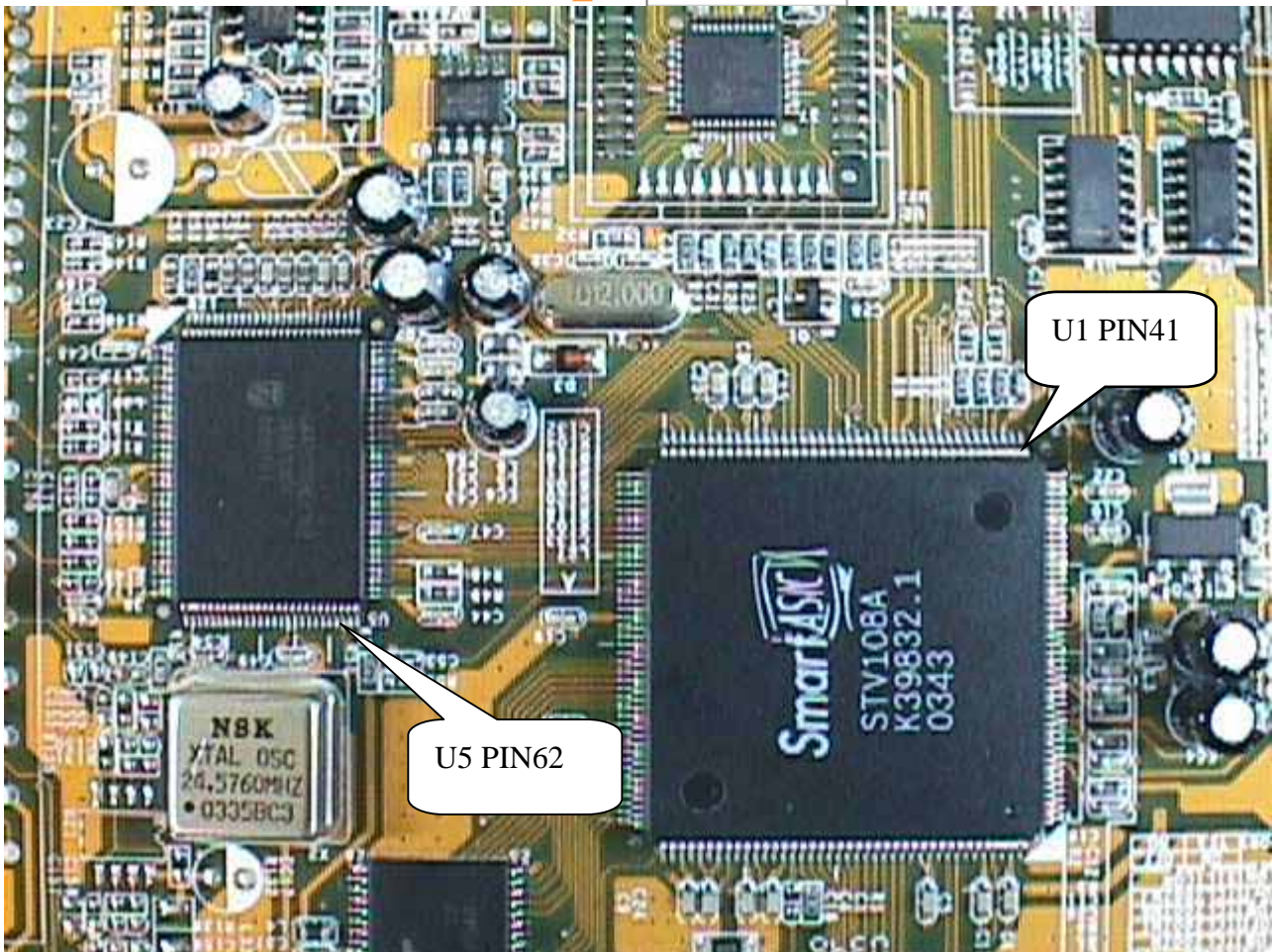


h. Check X2 Pin 3,U5 Pin 62,U1 Pin 41 OSC Signal

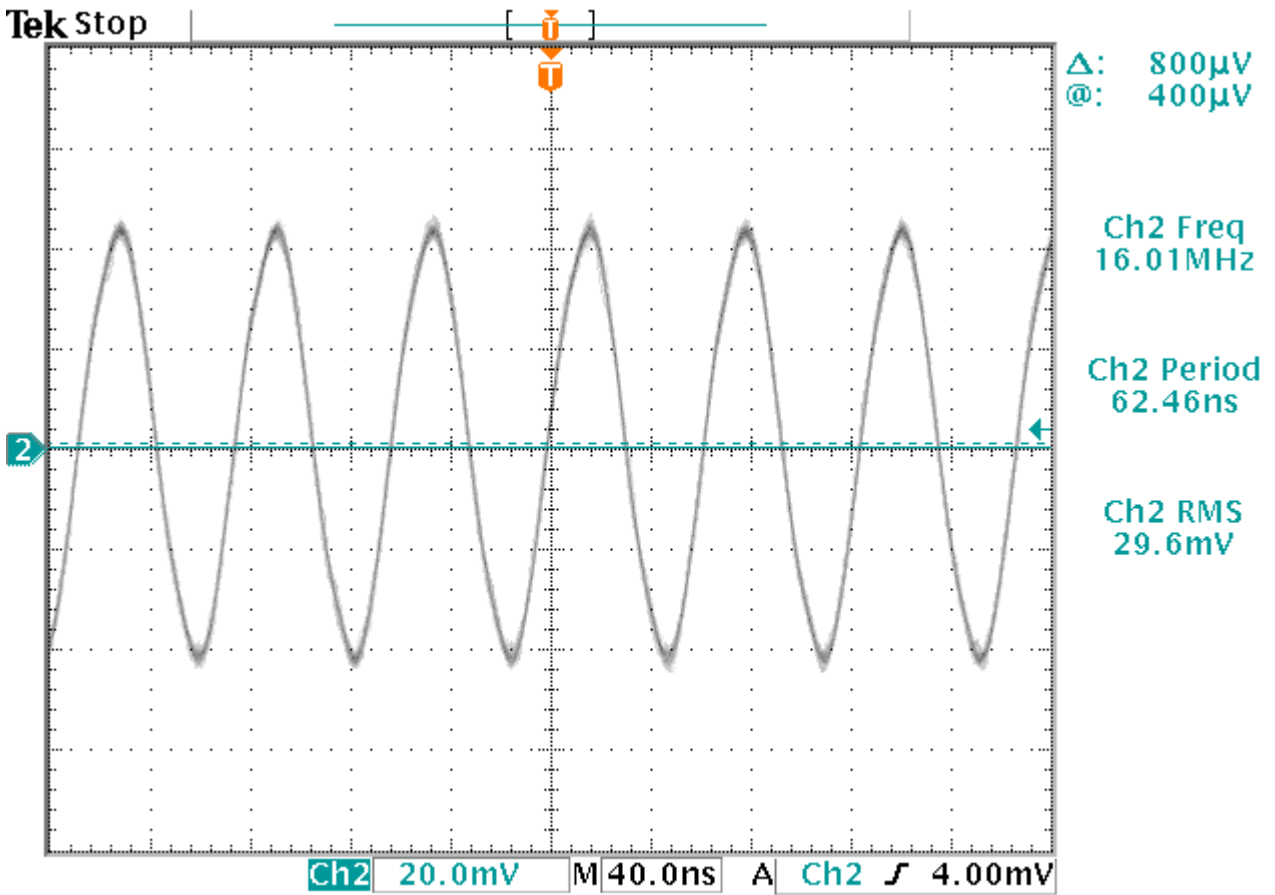


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10:42:44

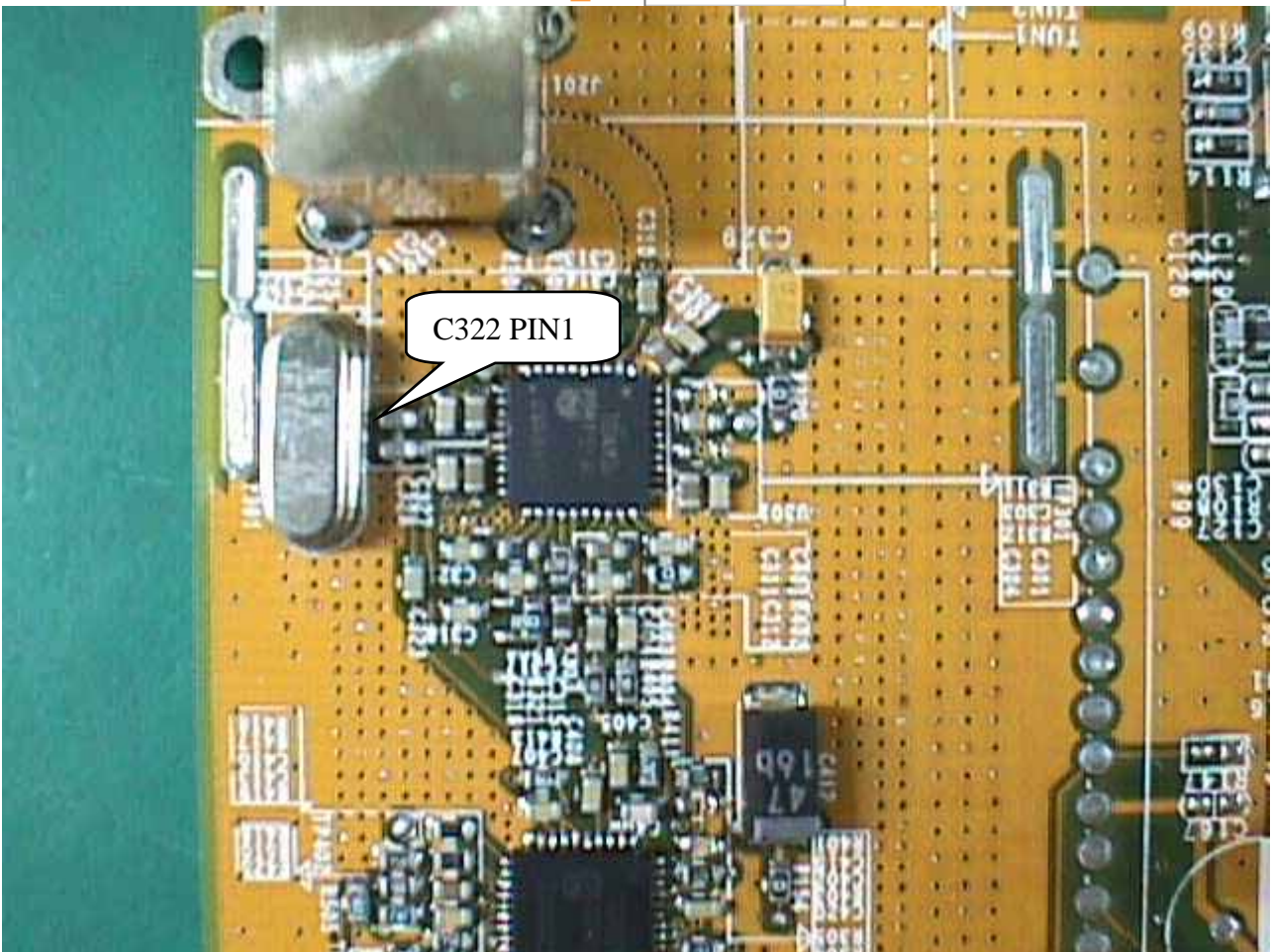
0.00000 s



i. Check Y301 X'TAL Signal

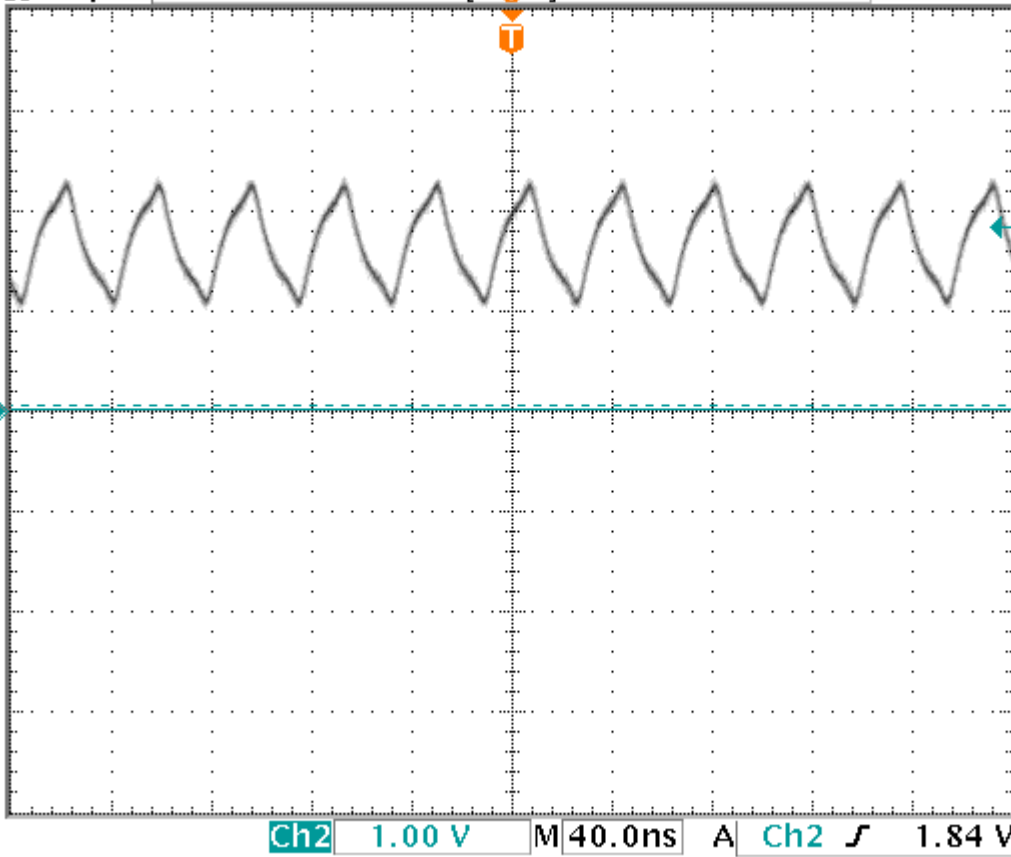


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10:46:27



j. Check U1 CLK_SAA Signal

Tek Stop



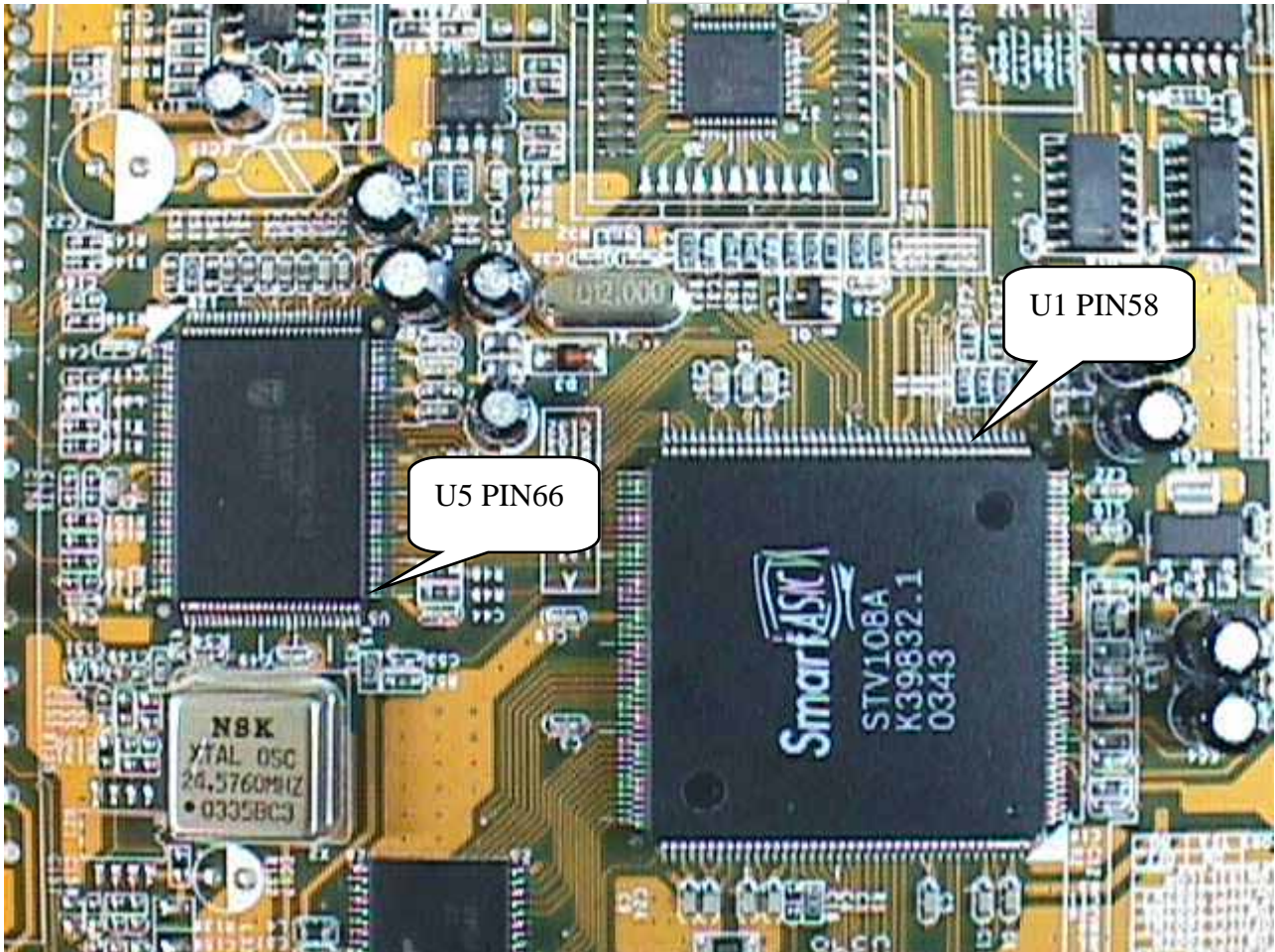
Δ: 40.0mV
@: 20.0mV

Ch2 Freq
27.31MHz
Low signal
amplitude
Ch2 Period
36.62ns
Low signal
amplitude
Ch2 RMS
1.72 V

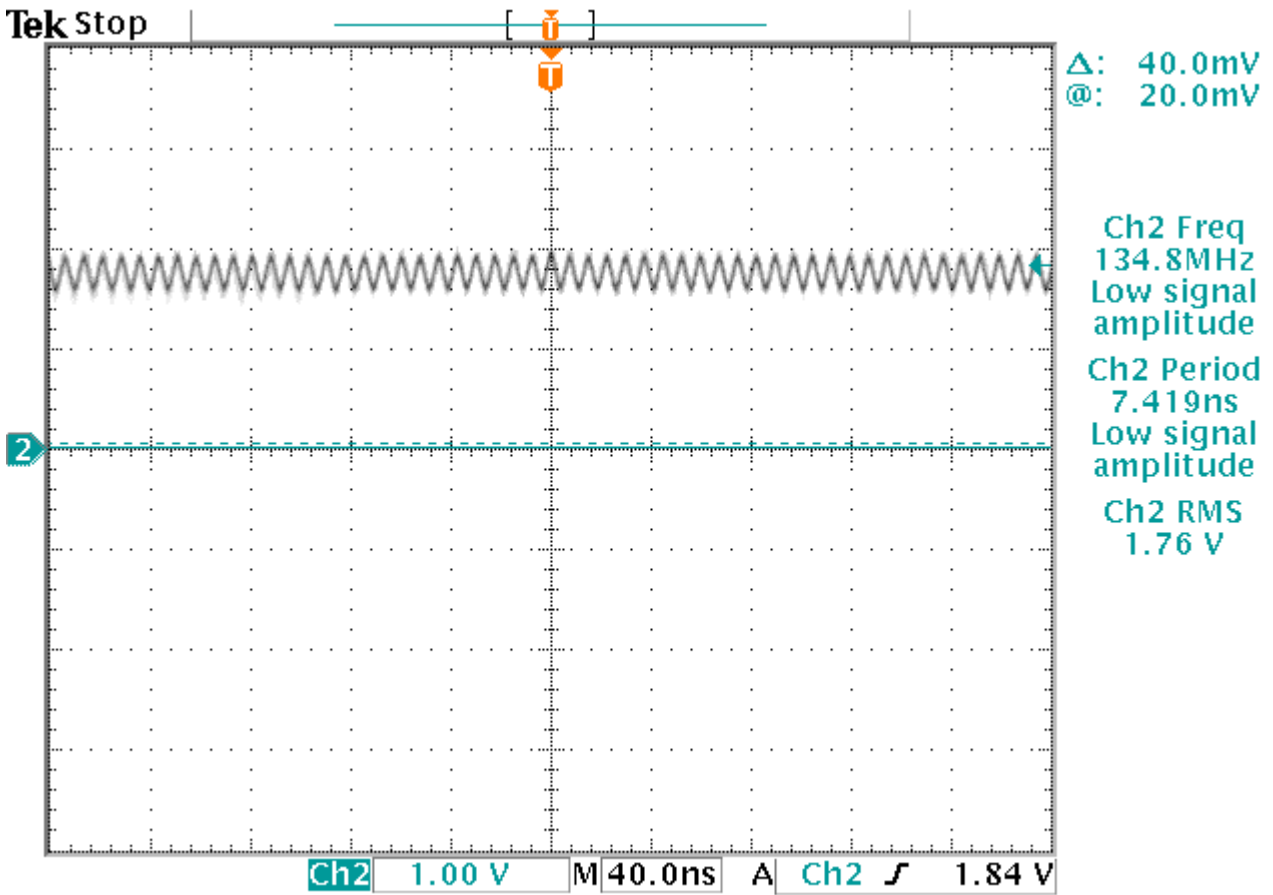
2

0.00000 s

6 Jan 2004
15:13:42

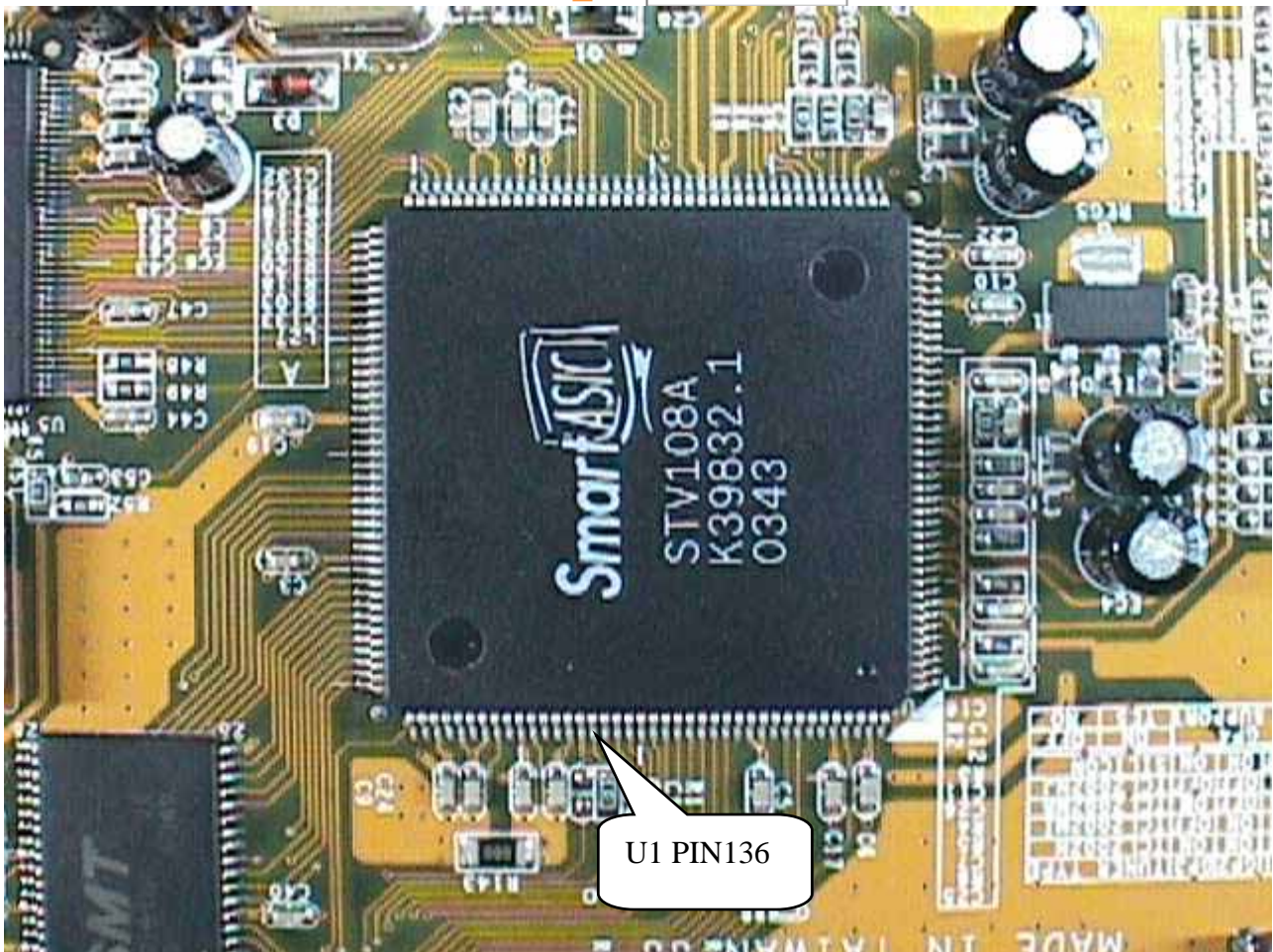


k. Check U1 RAM_CLK Signal



6 Jan 2004
15:07:47



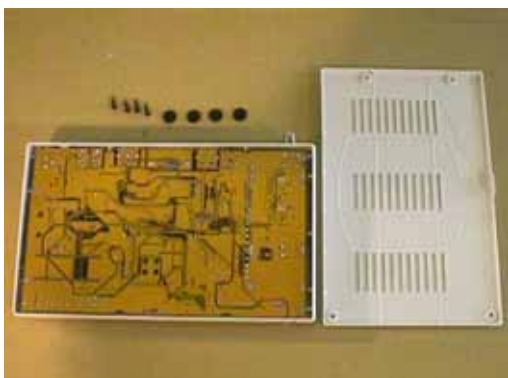
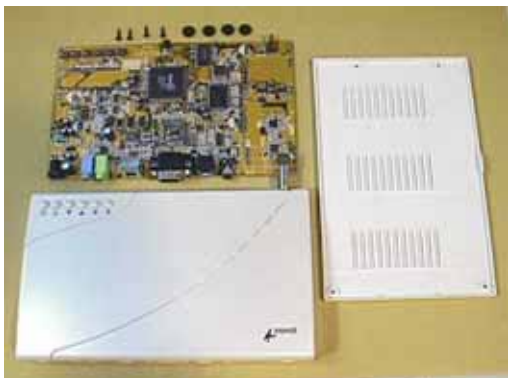
0.00000 s



Chapter 3. Troubleshooting Guide

Problems	Condition	Probable Reasons	Solutions
1. Blank Screen	1. Sound only, no picture.	1. Parts failure.	Change all the parts below 1. X2 2. REG5 3. U1
2. Buttons don't work	1. Buttons malfunction.	1. Micro SW NG	1.Change Micro SW
3. incorrect color display	1. VGA output malfunction.	1. Parts failure.	1.Change U15
4. LED no lit	1. no power.	1.LED failure	1.Change LED
5. Remote not functions	1. Remote control malfunction.	1.IR1 failure	1. .Change IR1
6. No TV image	1. Display malfunction.	1.TDA8275 NG	1.Change Y301
7. Black & white image only	1. Only black and white color in TV,AV,SVHS modes.	1.X'TAL NG	1.Change X2
8. No display in AV,SVHS modes	1. No display in AV,SVHS modes. 2. display correctly in TV mode.	1.SAA 7135 NG	1.Change U5
9. PIP MODE malfunction	1. The desktop can not work in PIP MODE	1.X'TAL NG	1.Change X1

Chapter 4. Removal and Replacement

Step	Description	Picture
<p>1. Turn the device upside down with the ports facing you.</p>	<p>Device before disassemble.</p>	
<p>2. Remove screws</p>	<p>Remove the rubber protectors at the corners and take out the screws.</p>	
<p>3. Open the case</p>	<p>Remove bottom cover.</p>	
<p>4. Remove PCB from case</p>	<p>Remove the PCB by lifting it and pulling it slightly toward you, being careful not to damage the LED light.</p>	

Chapter 5. Parts list

Description	Parts number	Description	Parts number
U1	102100010800	REG5	101900111702
U22	102100060200	REG4	101900111707
U5	102100713500	REG2 ,REG3	101900886000
		X1 12MHZ	201511200000
		X2 OSC24.576MHZ	201522457600
		Y301 16MHZ	201511600000
		SW1~SW6 TACT SWITCH	201200300404

Chapter 6. Tools

1. Screwdriver cross
2. Oscilloscope